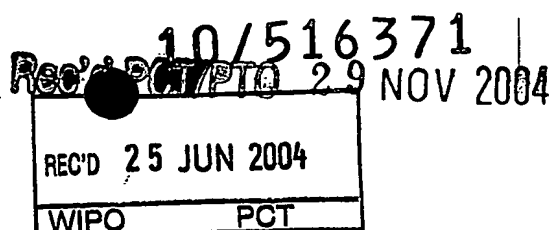


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PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)



Applicant's or agent's file reference PO031001	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/KR2003/000063	International filing date (day/month/year) 13 JANUARY 2003 (13.01.2003)	Priority date (day/month/year) 30 MAY 2002 (30.05.2002)
International Patent Classification (IPC) or national classification and IPC IPC7 B63B 25/24		
Applicant PARK, Se-Jong et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 26 DECEMBER 2003 (26.12.2003)	Date of completion of this report 14 JUNE 2004 (14.06.2004)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-3543	Authorized officer PARK, SUNG WOO Telephone No. 82-42-481-8140 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2003/000063

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☐ the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the claims:
pages _____, as originally filed
pages _____, as amended (together with any statement) under Article 19
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the drawings:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language English which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheet _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2003/000063

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1	YES
	Claims	None	NO
Inventive step (IS)	Claims	1	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1	YES
	Claims	None	NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: US 4,082,052 A (Conver Ingenieur-Techik GmbH & Co., KG) 04 APRIL 1978

D2: US 6,334,241 B (YNGVE FLODIN) 01 JANUARY 2002

(1) Novelty (N) and Inventive Step (IS)

The present invention relates to an apparatus for automatically locking containers loaded on a ship, in which a locker is operated by the weight of a container in order to connect and disconnect containers to and from each other. This apparatus comprises a housing with a seating surface and a locking pin, an operating element with a tapered cut portion and an engagement groove, an upper locker, and a lower locker with an engagement groove and a sloped groove.

D1 relates to a coupling device for connecting containers having corner fittings on which slots are formed, the device comprising a casing for abutment by the corner fittings and a locking pin which is pivotally mounted in the casing and carries transversely extending bolts for insertion in the corner fittings.

D2 relates to a container lock comprising an upper and a lower locking lug, a housing, a shaft lock-actuated by a spring in the housing and guide means permitting a locking rotation of the lower locking lug.

Neither D1 nor D2 suggests that the locker is automatically operated in accordance with the movement of the locking pin in the housing and sloped groove in the lower locker by the weight of a container when it is loaded or unloaded.

Therefore, the novelty and inventive step of the subject matter claimed in claim 1 can be acknowledged since the present invention is not rendered obvious from the above prior art. (PCT Article 33(2) and (3))

(2) Industrial Applicability (IA)

It is considered that the present invention is industrially applicable to a container-ship as an apparatus for automatically locking containers. Therefore, the subject-matter of claim 1 meets the requirement of PCT Article 33(4).